1. print even number from 2 to 50

```
package Assesement;
public class Even_number {
public static void main(String[] args) {
for(int num=2; num<=50; num=num+2)
{
System.out.println(num);
}
}
}
```

Output:

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34

36
38
40
42
44
46
48
50

2.print square of numbers from 1 to 10

```
package Assesement;

public class Square_numbers {

public static void main(String[] args) {
for (int i = 1; i <= 10; i++) {
System.out.println("Square of " + i + " = " + (i * i));
}
}
}
```

Output:

```
Square of 1 = 1
Square of 2 = 4
Square of 3 = 9
Square of 4 = 16
Square of 5 = 25
Square of 6 = 36
Square of 7 = 49
Square of 8 = 64
```

Square of 9 = 81
Square of 10 = 100

2. calculate sum of first 50 numbers

```
package Assesement;

public class Sumof_digits {

public static void main(String[] args) {
int sum = 0;
for(int i=0; i<=50; i++) {
sum=sum + i;
}
System.out.println("sum of first 50 digits is:" + sum);
}

}
```

Output:
sum of first 50 digits is:1275

3. print multiplication table for 17

```
package Assesement;

public class Multiplication_table {

public static void main(String[] args) {
for(int i=1; i<=20; i++)
{
```

```
System.out.println(7*i);
}

}

}
```

Output:

```
7
14
21
28
35
42
49
56
63
70
77
84
91
98
105
112
119
126
133
140
```

4. print reverse numbers from 20 to 1

```
package Assesement;

public class Reverse_number {

public static void main(String[] args) {
for(int i=20; i>=1; i--)
{
System.out.println(i);
}
}

}
```

Output:

```
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
```

5
4
3
2
1

5. print factorial of a number(eg. 5!=5*4*3*2*1)

```
package Assesement;

public class Factorial_number {

public static void main(String[] args) {
int num=5;
int fact = 1;
for(int i=1; i<=num; i++) {
fact=fact*i;
}
System.out.println(fact);
}
}
```

Output:

120

6. check if a number is prime

```
package Assesement;

public class Check_prime {

public static void main(String[] args) {
```

```
int num = 23;

if (isPrime(num)) {
System.out.println(num + " is a prime number");
} else {
System.out.println(num + " is not a prime number");
}
}

static boolean isPrime(int num) {
if (num <= 1) {
return false;
}
for (int i = 2; i <= Math.sqrt(num); i++) {
if (num % i == 0) {
return false;
}
}
return true;
}
}
```

Output:

23 is a prime number

7. print pyramid pattern

```
package Assesement;

public class pyramid_pattern {

public static void main(String[] args) {
```

```
int n = 5;
for (int i = 0; i < n; i++) {
for (int j = 0; j < n - i - 1; j++) {
System.out.print(" ");
}
for (int j = 0; j <= i; j++) {
System.out.print("* ");
}
System.out.println();
}

}

}
```

Output:

```
        *
      *   *
    *   *   *
  *   *   *   *
*   *   *   *   *
```

8. print diamond shape using * sign

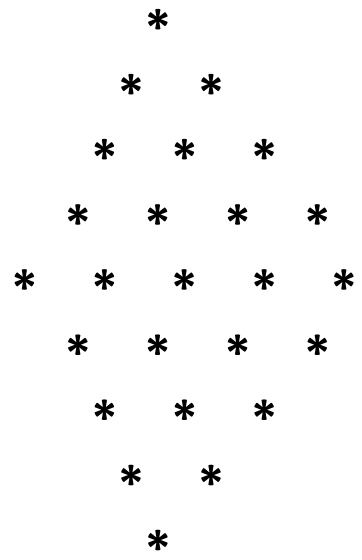
```
package Assesement;

public class Diamond {

public static void main(String[] args) {
int n = 5;
for (int i = 0; i < n; i++) {
for (int j = 0; j < n - i - 1; j++) {
System.out.print(" ");
}
for (int j = 0; j <= i; j++) {
System.out.print("* ");
}
System.out.println();
}
for (int i = n - 2; i >= 0; i--) {
for (int j = 0; j < n - i - 1; j++) {
System.out.print(" ");
}
for (int j = 0; j <= i; j++) {
System.out.print("* ");
}
System.out.println();
}
}

}
```

Output:



9. Print Fibonacci series up to 10 terms 1 2 3 5…

```
package Assesement;
public class fibonacci_series {
public static void main(String[] args) {
int n=10;
int a=0, b=1;
for(int i=0; i<=n; i++)
{
System.out.println(a);
int c=a+b;
a=b;
b=c;
}
}

}
```

Output:

0
1
1
2
3
5
8
13
21
34
55

10. count total digits in a number

```
package Assesement;
public class Countof_digit {
public static void main(String[] args) {
int num = 123;
int count = 0;
while (num != 0) {
num /= 10;
count++;
}
System.out.println(count);

}

}
```

Output:
23 is a prime number

11. check palindrome number

```
package Assesement;
public class palindrom_number {
public static void main(String[] args) {
int num = 12321;
int reversedNum = 0;
int originalNum = num;
while (num != 0) {
int digit = num % 10;
reversedNum = reversedNum * 10 + digit;
num /= 10;
}
if (originalNum == reversedNum) {
System.out.println( " palindrome number");
} else {
System.out.println(" not a palindrome number");
}
}
}
```

Output:
palindrome number